

Use of Urea Phosphate and Carbamide to Enrich  
Silage From Dry Corn Stalks and Other Com-  
ponents, by I. Ye. Bukhar, I. P. Grinberg, I.  
S. Gusarova, S. A. Tabunishchik, 8 pp.  
RUSSIAN, per, Khimiya v sel'skom khozyaystve,  
No 9, 1964, pp 61-65.  
JPRS 29113

Sci-Chem  
Mar 65

276,712

Production and Use of Boron and Molybdenum  
Fertilizers in the Soviet Union, by N. V.  
Katalymov, 10 pp.  
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No 11, 1964, pp 2-5.  
JMS 26835

Sci-Agriculture  
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Testing New Organic Fungicides Against Soybean  
Diseases, by I. M. Polyakov, A. G. Kronberg,  
7 pp.  
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No 11, 1964, pp 18-21  
JPRS 28885

Sci-Agriculture  
Mar 65

276,047

Effectiveness of Using Herbicides in Sugar Beet  
Sowings, by K. P. Padenov, 9 pp.  
RUSSIAN, per, Khimiya v sel'skom khozyaystve,  
No 11, 1964, pp 29-33.  
JPRS 28885

Sci-Agriculture  
Mar 65

276,048

Results of Using Herbicides in Shelterbelts  
Planted in Kokchetavskaya Oblast, by I. N.  
Boldyrev, 5 pp.  
RUSSIAN, per, Khimika v sel'skom khozyaystve,  
No 11, 1964, pp 47-49  
JPIIS 2585

Sci-Agriculture  
Mar 65

276,049

Detecting Elemental Sulfur in Reactive Fuels,  
by A. G. Ryasnyanskaya, 6 pp.

RUSSIAN, per, ~~Khimiya Seraorganicheskikh~~ Khimiya Seraorganicheskikh  
Soyedineniy, Soderzhchikhsya v Neft i  
Neft, Vol IV, 1961, pp 71-74. 9680278

FTD-TT-62-1451

Sci-Chem  
Apr 63

226, 751

Thiazole Derivatives Prepared on the Basis  
of Dimedon and Indandione-1,3, by  
E. Gudrinietse.  
RUSSIAN, per, Khim. Seraorg. Soed. Sod. Neft.  
i Neft. Prod., Vol 7, 1964, pp 65-66.  
NLL Ref: 5828.4F (12844)

Sci-Chem  
Jan 69

373,610

The Synthesis of Methane, by I. B. Rapoport,  
A. P. Blyndov.

RUSSIAN, ~~as per~~, Khim Tverdogo Topliva, Vol V, No 7,  
~~is pp 625-532.~~

Dept of Interior  
Tr No 1669

Sci

Jan 623

(DC-1745)

Apparatus for the Production of Acetylene, by P. K.  
Grigoriadi, 7 pp. UNCLASSIFIED

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Nov/Dec 1955, pp 40-44.

US JPRS/DC-L-260

Sci - Chemistry

63,427

S-2209

Exhaust System for the Demonstration of  
Experiments With Toxic Gases, by  
V. I. Levashov.

RUSSIAN, per, Khim v Shkole, Vol XI,  
No 5, Sep-Oct 1956, p 56.

Dmitriyev, K. A.  
EFFECT OF MOLYBDENUM ON THE YIELD OF  
RED CLOVER SEED (Deystviye Molibdena na Urozhay  
Semyan Krasnogo Klevera) tr. by M. Slade. [1960]  
[4]p. (foreign text included). [CSIRO] Trans. no. 4796.  
Order from LC or SLA mi\$1.80, ph\$1.80 61-19112  
Trans. of Khimizatsiya Sotsialisticheskogo Zemledeli  
a (USSR) 1938, v. 7, no. 10, p. 80-81.

61-19112

1. Seeds--Development
2. Molybdenum--Plant metabo-  
lism
3. Title: Red clover
1. Dmitriyev, K. A.
- II. CSIRO Trans-4796
- III. Commonwealth Scientific and  
Industrial Research  
Organization (Australia)

15881.0

Office of Technical Services

A Method for Determining Forms of Phosphate in Soils, by F. V. Chirikov, 9 pp.

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863.

SLA R-2251

Sci

Aug 58

72,222

Biological Significance of Molybdenum and  
Its Effects on the Development and Yield  
of Clover, by K. Dmitriev.

RUSSIAN, per, Khim Sotsialisticheskogo  
Zemledeliya, Vol VI, No 11, 1941,  
pp 15-17.

CSIRO 4797

Sci - Biol  
Mar 62

189, 258

THE FORMATION OF A DIALECTIC-MATERIALISTIC WORLD  
OUTLOOK IN STUDENTS TAKING CHEMISTRY COURSES, BY  
T. M. PEREPELOVA, 13 PP.

RUSSIAN, PER, KHIMIYA V SHKOLE, NO 3, MAY/JUN 1963,  
PP 55-61.

JPRS 20638

SCI -> CHEM  
AUG 63

238,810

Programmed Teaching of Chemistry, by S. G. Shapovalenko, 16 pp.

RUSSIAN, per, Khim v Shkole, Vol XVIII, No 5, 1963, pp 18-27.

JPRS 22730

Sci-Misc  
Jan 64

246, 094

Comp  
Special

1,258/70  
23 Dec 69

Table of Contents. Evgeniya Yulianovna Orlova.  
RUSSIAN, bk, Khimiya i Tekhnologiya Brizantnykh  
Vzryvchatykh Veshchestv, 1960, pp 394-396.

Mikhaylov, N. V., Bukov, G. A. and others.  
INVESTIGATIONS OF THE MECHANISM BY WHICH  
SYNTHETIC FIBERS ARE FORMED FROM THE  
MELT: METHODOLOGY OF THE INVESTIGATION  
AND SOME DATA ON POLYAMIDE AND POLYESTER  
FIBERS. July 60 [9]p. 4 refs.  
Order from LC or SLA m\$1.80 ph\$1.80 61-10236

Trans. of Khimicheskie Volokna (USSR) 1959, no. 1,  
p. [33]-36.  
Another translation is available from ATS \$10.90 as  
ATS-78M42R [1959] 7p.

The hardening process of polyamides and polyesters at  
the moment of fiber formation was investigated by the  
method of direct measurement of the ratio of diameter  
and of birefringence. The hardening of polyamides and  
polyesters in a thin stream is on formation of the fiber  
from the melt is expressed by a complex curve with a  
(Material Textiles, T.T. v. 5, no. 3) (cover)

61-10236

1. Synthetic fibers--  
Production
2. Title: Melt-spinning
3. Mikhaylov, N. V.
4. Bukov, G. A.
5. Title: Methodology...

142, 931

absence of linearity in the flow curve of the investigated polymers is related to the structural transformations at the moment of hardening of the polymers within the limits of one and the same phase of the substance. The hardening process of polyamide and polyester fibers during their formation from the melt goes through several stages: distortion of the melt stream, zone of hardening of the polymer, distinguished by a linear and a non-linear change in diameter with the formation of areas with a constant cross section. A hypothesis is given concerning the mechanism of polymer hardening during the formation of fibers from the melt. (Author)	20- 61-10236	
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Obtaining a High-Tenacity Viscose Cord, by  
A. T. Sartov, A. Konkin.  
RUSSIAN, per, Khim Volokna, No 1, 1959,  
pp 15-21.  
NYC-69-12775-11E

Sci-Mat  
Sept 69

391,214

Possibilities of Reducing Carbon Disulphide  
Consumption in Staple Fibre Plants, by G. A.  
Boronichev.

RUSSIAN, per, Khim Volokna, No 1, 1959, p 53.

NLL M. 2389

NLL M. 2671

Jan 62

Possibilities of Reducing Carbon Disulphide Consumption in Staple Fibre Plants, by G. A. Boronichev.

RUSSIAN, per, Khim. Volekna, No 1, 1959, p 53.

DCIR NM M.2309

Sci - Chem

1/1, 9/2

Oct 61

Investigation of Concentrated HX Solutions of  
Polyacrylonitrile in Dimethylformamide, by  
Ye. A. Pakshver, B. E. Heller, 12 pp.

RUSSIAN, per, Khim Volokna, No 2, 1959, pp 21-24.

SLA 60-18527

202, 225

Sci

Jun 62

<p>Perepelkin, K. Ye. KINETICS OF PHASE TRANSITIONS IN THE DISPERSED SYSTEM VISCOS-E-AIR (O Kinetike Prosessov Fazovykh Perehodov v Dispersnoy Sisteme Vozdukh-Viskoza). Communication 7 of Technological Problems in the Preparation of Spinning Solutions for the Formation of Chemical Fibres. Apr 61 [7]p. 24 refs. RTS 1807. Order from OTS or SLA \$1.10                    61-19805</p> <p>Trans. of <u>Khimicheskly Volokna (USSR)</u> 1959, no. 2, p. 48-50.</p> <p>DESCRIPTORS: Phase transitions, Reaction kinetics, *Cellulose, Air, *Rayon, Production, Bubbles.</p> <p>Investigation of the kinetics of phase transitions in the viscose-air dispersed system and determinations of the coefficients of mass transfer at different temperatures have been carried out. It is shown that the radius-time relation for growing (dissolving) air bubbles in viscose (Materials--Textiles. TT. v. 6, no. 5) (over)</p>	<p>61-19805</p> <p>I. Perepelkin, K. Ye. II. Title: Technological... III. RTS-1807 IV. Department of Scientific and Industrial Research (Gr. Brit.)</p> <p>180534</p> <p>Office of Technical Services</p>
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Kinetics of Phase Transitions in the Dispersed System Viscose-Air, by K. E. Perepelkin.

RUSSIAN, per, Khim Volokna, No 2, 1959, pp 48-50.

NLL RTS 1807

Sci - Chem

180, 017

Jan 62

Investigation of Concentrated Solutions of  
Polyacrylonitrile in Dimethyl Formamide, by  
E. A. Pakshver, et al.

RUSSIAN, per, Khim Volokna, No 2, 1959,  
pp 21-24.

DSIR LIU M.1820  
(loan)

Sci - Chem

Oct 60

130, 773

Investigation of Concentrated Solutions  
of Polyacrylonitrile in Dimethylformamide, by  
Ye. A. Pakshver, B. E. Heller, 12 pp.

RUSSIAN, per, Khim Volokna, No 2, 1959, pp 21-24.

SLA 60-18527

Sci

Jun 62

203,225

The Effect of the Moisture Content of Pulp on  
Its Degree of Xanthation, by A. I. Moes, I. N.  
Sokolova, 7 pp.

RUSSIAN, per, Khimicheskiy Volokna, No 2, 1959,  
pp # 33-35.

SLA 61-10234

Vol V, № 5  
Jul 61

159, 750

Mikhaylov, N. V. and Zav'yalova, N. N.  
THE EFFECT OF TEMPERATURE AND OF THE  
AGING INDEX ON THE STRUCTURE OF VISCOSE  
SOLUTIONS AND THE FORMATION PROCESS OF  
THE FIBER. [1960] [10]p. 7 refs.  
Order from LC or SLA mi\$1.80, ph\$1.80 61-10235  
Trans. of Khimicheskiy Volokna (USSR) 1959, no. 2,  
p. 44-47.

The susceptibility of the fiber to oriented stretching increases with a rise in the maturity index of viscose solutions, while the strength and elongation of the fiber improve. The viscosity drops considerably with a rise in the temperature of viscose solutions, the density of packing of the freshly-formed fiber diminishes, and the susceptibility of the fiber to oriented stretching rises with a simultaneous decline in reversible deformation, which facilitates obtaining fibers of greater strength.  
(Author)

(Materials--Textiles, TT, v. 5, no. 4)

61-10235

1. Cellulose--Temperature factors
  2. Synthetic fibers--Production
- I. Mikhaylov, N. V.  
II. Zav'yalova, N. N.

143,198

Office of Technical Services

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APPROVED FOR RELEASE: Thursday, December 13, 2001

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Perepelkin, K. Ye. BASIC MECHANISM OF THE DEAERATION OF VISCOSE (Osnovnyye Protsessy pri Obzvozzhivani Vlekozy). Apr 61 [10p. 21 refs. RTS 1808. Order from OTS or SLA \$1.10 61-19694 Trans. of Khim[ichesky] Volokna (USSR) 1959, no. 3, p. 39-45.	61-19694 1. Title: Deaeration I. Perepelkin, K. Ye. II. RTS-1808 III. Department of Scientific and Industrial Research (Gr. Brit.)  NLL 161810 161810 Office of Technical Services
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<p>Archangelskii, D. N., Rogovin, Z. A., and Konkin, A. A. EFFECT OF CONCENTRATION AND NATURE OF ACIDS AND SULFATES USED ON THE SAPONIFICATION RATE OF CELLULOSE XANTHATE. Communication 1 of Investigations on the Process of Viscose Fiber Formation. [1961] [12]p. 12 refs. Order from OTS or SLA \$1.60                    61-18828  Trans. of Khim[icheskie] Volokna (USSR) 1959, no. 4, p. 23-26.  DESCRIPTORS: *Cellulose, *Xanthic acids, Hydrolysis, Sulfuric acid, Hydrochloric acid, Phosphoric acid, Acids, Sulfates, Chemical reactions, Precipitation.  A method has been developed for determining the effect of the components in the precipitating bath on the saponification rate of cellulose xanthate. The rate of (Chemistry--Physical, TT, v. 7, no. 2)                    (over)</p>	<p>61-18828 I. Archangelskii, D. N. II. Rogovin, Z. A. III. Konkin, A. A. IV. Title: Investigations...  Office of Technical Services</p>
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<p>Danilyuk, A. S. METHOD TO REDUCE THE CLOGGING OF SPINNERETTES. Sep 60 (3) p. Order from I.C. or S.I.A. m\$1.80. (m\$1.80) f1-10223  Trans. of <u>Khimicheskly Volokna (USSR)</u> 1959, no. 4, p. f1-f2.</p> <p>Pilot tests at the Kalinin combine with a filter mounted in front of the operating spinnerette are reported. Preliminary results are encouraging.</p> <p>(Materials--Textiles, TT, v. 3, no. 4)</p>	<p>f1-10223</p> <p>1. Synthetic fibers--Processing 2. Textiles--Processing 3. Textile Industry--Equipment 4. Title: Spinnerettes 5. Danilyuk, A. S</p> <p>143,201</p> <p>Office of Technical Services</p>
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Method for Determining the Completed Dissolution of  
Cellulose in the VA Apparatus, by B. T. Abovskiy,  
etal.

RUSSIAN, per, Khim Volokna, No 4, 1959, pp 62-64.

MIL M. 3053

Sci

Feb 62

186, 901

Rozenberg, A. Ya. and Vlasova, G. N.  
DETERMINATION OF SULPHATE IONS BY DIRECT  
TITRATION WITH ALIZARINE S (Oprudelenie Sulfat-  
ionov Metodom Pryamogo Titrovaniya s Indikatorom  
Alizarinom-S). July 61 [5]p. 2 refs. RTS 1877.  
Order from OTS or SLA \$1.10 61-23667

Trans. of Khimicheskie Volokna (USSR) 1959, no. 4,  
p. 67-68.

DESCRIPTORS: \*Sulfates, Ions, Determination,  
Cellulose, Titration.

A volumetric procedure was devised for determination  
of sulphates in the spinning bath and effluent liquor,  
and for use during complete analysis of the spinning  
cake. The method makes possible the determination of  
sulphates with an error not more than 1 or 2%. (Author)

SLA TT-65-18069

SLA-TT-61-23667  
(Chemistry-Analytical, TT, v. 6, no. 5)

61-23667

I. Rozenberg, A. Ya.  
II. Vlasova, G. N.  
III. RTS-1877  
IV. Department of Scientific  
and Industrial Research  
(Gr. Brit.)

180595

Office of Technical Services

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Geller, A. A. and Pakshver, A. B.

INVESTIGATION OF A PROCESS OF DYEING OF A POLYACRYLONITRILE FIBER, COMMUNICATION 1.  
[1961] 7p. 8 refs.

Order from OTS or SLA \$1.10

61-20709

Trans. of Khimicheskie Volokna (USSR) 1959, no. 6,  
p. 15-17.

Another trans. is available from ATS \$9.00 as  
ATS-89M46R [1960] 5p.

DESCRIPTORS: \*Synthetic fibers, Colors, \*Dyes,  
Effectiveness, Textiles, \*Acrylonitriles, \*Polymers,  
Processing, Fibers.

It is shown that upon formation, stretching, finishing  
and drying of the fiber a marked tightening of the  
structure occurs which is expressed in the sharp de-  
crease of the diffusion coefficient of dyes within the  
(Materials--Textiles, TT, v. 7, no. 7) (over)

61-20709

I. Geller, A. A.  
II. Pakshver, A. B.

ATS/KF-2974

Office of Technical Services

<p>Nechayeva, S. A. and Rogovin, Z. A. SPINNING OF POLYPROPYLENE FIBER FROM A THERMOPLASTIC STATE. [1960] 6p. Order from ATS \$15.20      ATS-33M46R</p> <p>Trans. of Khim[icheskiy] Volokno (USSR) 1959, no. 6, p. 47-51.</p> <p>147, 048</p> <p>(Materials--Textiles, TT, v. 5, no. 5)</p>	<p>61-12359</p> <p>1. Synthetic fibers-- Processing</p> <p>2. Propene polymers-- Processing</p> <p>I . Nechayeva, S. A. II . Rogovin, Z. A. III . ATS-33M46R IV . Associated Technical Services, Inc., East Orange, N. J.</p> <p>ATS/RJ-2973</p> <p>Office of Technical Services</p>	
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Vlrezub, A. I., Ginzberg, M. A. and others. DEVELOPMENT OF A CONTINUOUS METHOD FOR DEAERATING VISCOSE SOLUTIONS. [1960] 5p. Order from ATS \$9.80 ATS-87M46R	61-12754 I. Cellulose--Processing I. Vlrezub, A. I. II. Ginzberg, M. A. III. ATS-87M46R IV. Associated Technical Services, Inc., East Orange, N. J.	
151537		
Office of Technical Services		
(Materials--Wood, TT, v. 5, no. 8)		

<p>Nemchenko, E. A. ELASTIC PROPERTIES OF STAPLE FIBERS. 22 June 62, 10p. Order from OTS or SLA \$1.10      63-10786</p> <p>Trans. of Khim[icheskie] Volokna (USSR) 1959, no. 6, p. 47-49.</p> <p>DESCRIPTORS: *Fibers, *Elasticity, Compressive properties, Volume, Air, Textiles, Measurement, Fibers (Synthetic).</p> <p>(Materials--Textiles, TT, v. 9, no. 12)</p>	<p>63-10786</p> <p>I. Nemchenko, E. A.</p> <p>Office of Technical Services</p>
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The Problem of the Evaluation of the Quality of  
Viscose Cellulose, by A. G. Yasunskaya.

RUSSIAN, per, Khim Volokna, No 1, 1960, pp 23-26.

DSIR LIU M. 2284

Sci - Chem

Oct 61

169 837

<p>Lotarev, B. M. and Bork, Z. V. PREPARATION OF VISCOSE WITH THE ADDITION OF SODIUM ZINCATE, tr. by L. Gawronska. 20 July 60, 10p, 4 refs. Courtaulds Misc. Lit. 3190; [DSIR L.I.U] M. 2326. Order from I.C or S.A m\$1.80, ph\$1.80 61-15466  Trans. of Khim[icheskly] Volok[na] (USSR) 1960, no. 1, p. 27-29.</p> <p>The addition of sodium zincate to steeping soda in amounts from 3.3 to 6.6 g. (calculated as zinc oxide) per 1 kg. of viscose produces viscoses of normal composition and quality. If alkali cellulose is xan- thated with CS<sub>2</sub> amounting to 30-25% of the (η-cellu- lose weight in the VA apparatus under normal techno- logical conditions. The addition of sodium zincate carried out during preparation of the viscose in- creases its filterability. Viscoses prepared with the addition of sodium zincate are more stable than those without it, and this affects the process of filament spinning. (Author)</p>	<p>61-15466</p> <p>I. Cellulose--Preparation II. Sodium compounds-- Chemical reactions I. Lotarev, B. M. II. Bork, Z. V. III. Courtaulds Ml.-3190 IV. DSIR L.I.U M. 2326 V. Courtaulds Ltd. Gt. Brit.)</p> <p>16661</p> <p>Office of Technical Services (Engineering--Chemical, TT, v. 5, no. 12)</p>
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Volf, L. A., Meos, A. I., and Inkina, S. A.  
COMPLEXOMETRIC DETERMINATION OF SODIUM  
SULPHATE IN PRECIPITATION BATHS IN THE PRO-  
DUCTION OF MAN-MADE FIBRES, tr. by  
I. Gawronski. 4 Aug 60, Sp. 5 refs. Courtaulds Misc.  
Lit. 3191; [DSIR LLU] M.3191.  
Order from LC or SLA m\$1.80, ph\$1.80 61-15469

Trans. of Khim[cheskiy] Volok[na] (USSR) 1960,  
no. 1, p. 32-33.

The substituted Zn cations were titrated with Complexone III in the presence of Chromogene Black. The end point was recognized by the sharp change of the wine-red color to pure blue. The experiments were carried out with spinning baths from a viscose plant ( $H_2SO_4$ ,  $Na_2SO_4$ ,  $ZnSO_4$ ) and from a polyvinyl alcohol fibre plant ( $Na_2SO_4$  and  $ZnSO_4$ ). The accuracy of the method was assessed by comparison with the results of gravimetric analysis. The complete analysis requires only 10 to 15 minutes and is entirely suitable for practical application.

61-15469

1. Sodium sulfates--  
Determination
2. Synthetic fibers--  
Production
1. Volf, L. A.
- II. Meos, A. I.
- III. Inkina, S. A.
- IV. Courtaulds ML-3191
- V. DSIR LLU M.2329
- VI. Courtaulds Ltd. (Gt. Brit.)

1001010

Office of Technical Services  
(Materials--Textiles,  
TT, v. 5, no. 12)

<p>Goryachko, G. V., Larionov, N. I., and Glazkovskiy, Yu. V. ULTRASONIC CLEANING OF SPINNING JETS, tr. by I. Gawronska. 11 Aug 60, 4p. 5 refs. Courtaulds Misc. Lit. 3193; [DSIR LLU] M. 2335. Order from LC or SLA m\$1.80, ph\$1.80 61-15473 Trans. of Khim[ichekskiy] Volok[na] (USSR) 1960, no. 1, p. 51-52. Another translation is available from ATS \$6.00 as ATS-50M47R [1960] 3p.</p> <p>An ultrasonic generator with a power up to 10 kilowatts with magnetostrictive vibrators, operating with a frequency of 20-22 kilocycles, is required for the cleaning of jets under industrial conditions. A generator with this power is able to carry out a simultaneous cleaning of several scores of jets. The cleaning of jets takes 4-6 min. instead of hours, as in the case with the chemical method applied at present. The ultrasonic treatment does not corrode the spinning jets and does not affect the dimensions or the shape of the orifices.</p>	<p>61-15473</p> <p>I. Textile Industry--Equipment 2. Ultrasonics--Applications 3. Title: Spinning Jets I. Goryachko, G. V. II. Larionov, N. I. III. Glazkovskiy, Yu. V. IV. Courtaulds ML-3193 V. DSIR LLU M. 2335 VI. Courtaulds Ltd. (Gt. Brit.)</p> <p>166622</p> <p>Office of Technical Services (Materials--Textiles, TT, v. 5, no. 12)</p>
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(DC4368 )

Conference of Specialists in Chemical Fiber  
Production of the Participating Countries of the  
Council of Economic Mutual Aid, 3 pp.

RUSSIAN, per, Khim Volokna, No 1, 1960, p 75.

✓\*JPRS 6086

SCI - Misc

23 Aug 60

Beder, N. M., Geller, B. E., and Pakshver, A. B.  
MOLECULAR COMPOSITION OF POLYACRYLONITRILE. [1961] 6p.  
Order from AT&T \$9.15 ATS-44N56R

Trans. of Khim[icheskie] Volokna (USSR) 1960, no. 2,  
p. 33-36.

**DESCRIPTORS:** \*Polymers, \*Acrylonitriles, Molecular structure

62-12161

- I. Beder, N. M.
  - II. Geller, B. E.
  - III. Pakshver, A. B.
  - IV. ATS-44N56R
  - V. Associated Technical Services, Inc.,  
East Orange, N. J.

(Chemistry--Organic, TT, v. 7, no. 3)

## **Office of Technical Services**

<p>Perepelkin, K. V. RAPID METHOD FOR CONTROL OF THE DEGREE OF DEAERATION OF VISCOSE AND OTHER SPIN- NING SOLUTIONS WITH LOW VAPOR PRESSURE. May 62, 3000 words. Order from LSA \$30.00</p> <p>Trans. of Khimi[cheskie] Volok[na] (USSR) 1960, no. 2 p. 53-56.</p> <p>DESCRIPTORS: *Cellulose, Solutions, Air, Separa- tion, Control, Vapor pressure.</p> <p>(Materials--Paper, TT, v. 8, no. 4)</p>	<p>62-17250</p> <p>I. Title: Deaeration I. Perepelkin, K. V. II. Literature Service Associates, Bound Brook, N. J.</p> <p>NLL RTO 2674</p> <p>Office of Technical Services</p>
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Temperature Conditions for Xanthation of Alkali  
Cellulose, by Ye. M. Mogilevskiy,  
M. A. Ginzberg.  
RUSSIAN, per, Khim Volokna, No 2, 1960, pp 60-63.  
NTC-69-12774-11E

Sci-Mat  
Sept 69

391,213

Voitelev, Yu. A. and Katorzhnov, N. D.  
INCREASING THE HEAT STABILITY OF POLY-  
AMIDES BY THE INTRODUCTION OF SMALL  
AMOUNTS OF INORGANIC SUBSTANCES. [1962] 7p.  
Order from ATS \$12.75 ATS-22P61R

Trans. of Khim[ichesk]e Volokna (USSR) 1960, no. 3,  
p. 3-6.

DESCRIPTORS: \*Polymers, \*Amides, Stability, Heat tolerance, \*Inorganic substances, Thermodynamics.

(Chemistry--Organic, TT, v. 8, no. 4)

62-17710

- I. Voitelev, Yu. A.  
II. Katorzhnov, N. D.  
III. ATS-22P61R  
IV. Associated Technical Services, Inc., East Orange,  
N. J.

Office of Technical Services

Zharkova, M. A. and Kudryavtsev, G. I.  
COPOLYMERIZATION OF ACRYLONITRILE AND  
 $\alpha$ -VINYLPYRIDINE IN AN AQUEOUS SOLUTION OF  
SODIUM THIOCYANATE. [1960] 7p.  
Order from ATS \$12.60      ATS-63M47R  
Trans. of Khim[icheskiy] Volokna (USSR) 1960, no. 3,  
p. 15-18.

148,667

61-12688

1. Copolymerization
  2. Vinyl cyanide--  
Polymerization
  3. Vinyl pyridine--  
Polymerization
  4. Sodium thiocyanate--  
Chemical reactions
- I. Zharkova, M. A.  
II. Kudryavtsev, G. I.  
III. ATS-63M47R  
IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 7)

<p>Manduk, V. PNEUMATIC TRANSPORT IN THE CHEMICAL FIBER INDUSTRY (Pnevmaticheskii Transport v Promyshlen- nosti Khimicheskikh Volokon). [1961] [12]p. (foreign tex included). Order from OTS or SLA \$1.60                  62-14259</p> <p>Trans. of Khlm[cheskie] Volokna (USSR) 1960, no. 3, p. 48-50.</p> <p>DESCRIPTORS: *Pneumatic systems, *Conveyors, *Synthetic fibers, Industrial equipment.</p> <p>The concrete examples given for the application of pneumatic conveyors in industrial chemical plants show the suitability of these conveyors for transporting various materials. The method of transport described can be recommended for use in the production of viscose and synthetic fibers. (Author) (Machinery--Transport, TT, v. 8, no. 7)</p>	<p>62-14259 I. Manduk, V.</p> <p>Office of Technical Services</p>
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(SF-1581)

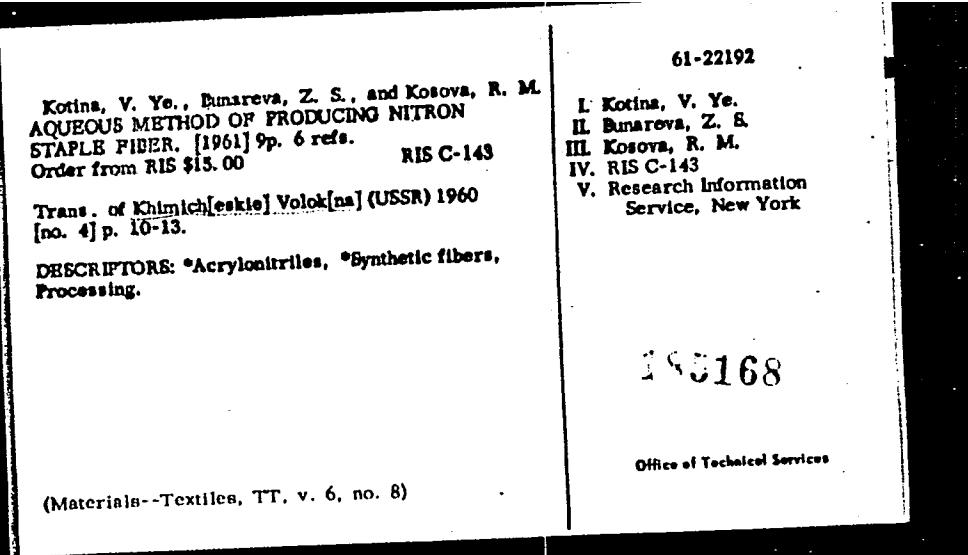
Tasks of the Chemical Fiber Industry, 5 pp.  
RUSSIAN, per, Khim Volokna, No 4, 1960, pp 1-2.

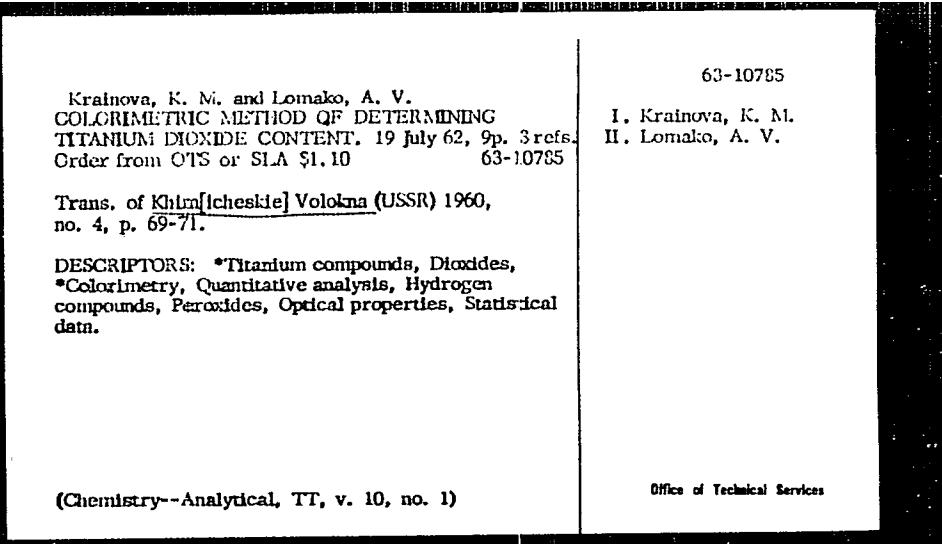
JPRS 4499

Sci - Chem

Apr 61

147,279





The Variation in Physics-Mechanical Properties of  
Viscose-Type Cord, Depending on Its Structure and  
the Technology of Fibre Formation, by V. A.  
Usenko, et al.

RUSSIAN, per, Khim Volokna, No 5, 1960, pp 37-40.

MLL N. 3370

Sci - Chem

192, 328

Apr 62

Investigation of the Conditions for the Production  
of Acrylonitrile / ~~or~~ -Vinyl Pyridine  
Copolymer, Suitable for the Spinning of Fibres,  
by N A. Zharkova, et al.

RUSSIAN, per, Vain Voloka, No 6, 1960,  
pp 15-19.

MIL M. 3764

Sci - Chem

Nov 62

211,546

Influence of Count Irregularity, Breaking Load and Breaking Elongation of Single Viscose Fibers on Breaking Length of Staple,  
by N. A. Novikov.  
RUSSIAN, per, Khimicheskie Volokna, No 6, 1960,  
pp 43-49.  
NTC-71-12469-11E

Nov 71

<p>Butorina, E. F. and Matveev, Yu. I. DETECTION OF DEFECTS IN ACETATE RAYON BY MICROANALYSIS (Obozrenie Defektov Atsetatnogo Shelka s Pomoshch'yu Mikroanaliza). 4 June 62 [6]p. (foreign text included). Order from OTS or SLA \$1.10                  63-10812</p> <p>Trans. of <u>Khimicheskie Volokna (USSR)</u> 1960, no. 6, p. 57-58. Another trans. is available from OTS or SLA \$1.10 as 62-15374, DSIR NLL M.3237, 27 Mar 61, 4p.</p> <p>DESCRIPTORS: *Cellulose acetates, *Rayon fibers, *Synthetic fibers, Plastics, Textile Industry, Detection, Microanalysis.</p> <p>(Materials--Textiles, TT, v. 10, no. 3)</p>	<p>63-10812</p> <p>I. Butorina, E. F. II. Matveev, Yu. I.</p> <p>Office of Technical Services</p>
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(NY-3000/46)

Results of the Activities of the Chemical Fiber  
Industry in 1960 and the Tasks for 1961, 6 pp.

RUSSIAN, per, Khimicheskiye Volokna, No 1, 1961,  
pp 1, 2.

JPRS 9364

USSR

Econ

Jun 61

156,124



CAUSES OF VINYL YELLOWING DURING THERMAL  
TREATMENT AND THE METHODS OF AGEING, BY  
L. A. WOLF, ET AL.

*Khim Volokna*,  
RUSSIAN, PER, NO 1, 1961, PP 19-21.

NLL M.3484

SCI - CHEM

JUN 62

199,162

The Use of Electrically Heated Spinning Heads in the Manufacture of Capron Fibres, by G. P. Savin,

RUSSIAN, per, Khimicheskie Volokna, No 1, 1961,  
pp 33-37,

GB/39/R and T 466 Fib.

Sci  
Dec 62

Mogilevskii and others.  
MODIFICATION OF THE PROPERTIES OF VISCOSE  
FIBERS. [16 Apr 63] 10p, 19 refs.  
Order from OTS or SLA \$1.10 63-18364

Trans. of Khim[icheskie] Volokna (USSR) 1961, no. 1,  
p. 37-39.

DESCRIPTORS: \*Fibers (Synthetic), \*Viscose,  
Rayon, Elasticity, \*Protective treatments, \*Amines,  
\*Ethyl radicals, Chemical reactions, Solutions,  
Polymers, Mechanical properties.

Elastic properties of rayon can be improved by  
treatment with monoethylamine. Wearability can be  
increased by coating rayon with a film of synthetic  
polymers. (Author)

(Engineering--Chemical, TT, v. 10, no. 11)

63-18364

I. Mogilevskii

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

<p>Belitsin, M. N. THE EFFECT OF THE PROPERTIES OF SINGLE VISCOSE FIBERS ON THE PROPERTIES OF TWISTED YARN (Vliyanie Svoistv Niskozaykh Zlementarnykh Volokon na Svoistva Kruchenoi Niti). 24 May 62 [26]p. 18 refs. Order from OTS or SLA \$2.60 63-10789</p> <p>Trans. of <u>Khim[icheskie] Volokna</u> (USSR) 1961, no. 1, p. 60-67. ^</p> <p>DESCRIPTORS: *Viscose, *Fibers, Mechanical properties, Processing, Mathematical analysis, Textiles, Fibers (Synthetic).</p> <p>(Materials--Textiles, TT, v. 9, no. 12)</p>	<p>63-10789 I. Belitsin, M. N.</p> <p>Office of Technical Services</p>
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APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

Modification of the Properties of Polymethyl-  
lene Fibre by Grafting, by L. Odor, F.  
Helein.

RUSSIAN, per, Khim Volokna, No 2, 1961,  
pp 18-22.

MLL M.3475

Sci - Chem  
Apr 62

193,813

<p>Grishchenko, A. Z., Bezoosyak, U. L. and others. AUTOMATIC REGULATION OF LEVELS IN EQUIPMENT FOR THE CONTINUOUS POLYMERIZATION OF CAPROLACTAM. Feb 62 [5]p. Order from OTS or SLA \$1.10 62-20028  Trans. of <u>Khimicheskie Volokna</u> (USSR) 1961, no. 2, p. 23-24.</p> <p>DESCRIPTORS: *Fibers (Synthetic), Polymerization, Lactams, Industrial equipment, Automatic, Control.</p> <p>(Materials--Textiles, TT, v. 10, no. 7)</p>	<p>62-20028</p> <p>I. Title: Caprolactams I. Grishchenko, A. Z. II. Bezoosyak, U. L.</p> <p>Office of Technical Services</p>
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<p>Shevchenko, A. S., Konkin, A. A., and Serkov, A. T. EFFECT OF POLYETHYLENE GLYCOLS ON VISCOSE FIBER FORMATION (Vliyanie Poliztilenglikolei na Protsess Formovaniya Viskoznogo Volokna). 16 Oct 61 [15]p, 20 refs. Order from OTS or SLA \$1.60                    62-14257</p> <p>Trans. of Khim[ichekie] Volokna (USSR) 1961, no. 2, p. 29-33.</p> <p>DESCRIPTORS: *Synthetic fibers, Rayon fibers, *Cellulose, Xanthic acids, Gels, Viscosity, *Glycols, *Ethylenes.</p> <p>The possibility of using polyethylene glycols with differ- ing degrees of polymerization (5 to 68 rkm) as modifiers during viscose fiber formation was investi- gated. It was shown that, by increasing the degree of polymerization of polyethylene glycol, the rate of xan- (Materials--Textiles, TT, v. 9, no. 4)                    (ovre)</p>	<p>62-14257</p> <p>I. Shevchenko, A. S. II. Konkin, A. A. III. Serkov, A. T.</p> <p>Office of Technical Services</p>
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Varnished Cellophane, by L. I. Speranskiy.

RUSSIAN, per, Khimiya Volokna, No 2, 1961, pp 33-37.

MLL M. 3527

Sci - Chem

Jul 62

204,833

<p>Gel'perin, N. L and Kroklin, N. G. FLOW OF VISCOUS LIQUIDS FROM SMALL SPINNING HOLES (SPINNERET). [21 May 63] [20]p. 14 refs. Order from OTS or SLA \$1.60 63-18280</p> <p>Trans. of Khim[ichekie] Volokna (USSR) 1961, no. 2, p. 40-46.</p> <p>DESCRIPTORS: Textile industry, *Viscose, *Cellulose acetates, Liquids, Solutions, *Fibers (Synthetic), Fluid flow, Water, Minerals.</p> <p>The behavior of viscose and cellulose acetate solutions used for producing synthetic fibers, which are spun by the flow of these solutions through spinnerets, was investigated. In order to compare the experimental data, the flow of water and mineral oil through the same spinneret was also investigated. (Materials--Textiles, TT, v. 10, no. 11)</p>	<p>63-18280</p> <p>I. Title: Spinneret I. Gel'perin, N. L II. Kroklin, N. G.</p> <p>Office of T</p>
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APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

A Study of the Properties of Polyacrylonitrile  
Solutions, by N. M. Beder, A. B. Pakshver.

RUSSIAN, per, Khimicheskiye Volokna, No 3,  
1961, pp 21-24.

HLL M. 3570

Sci - Chem

207,566

Aug 62

<p>Palladov, S. S. and Sklyannikov, V. P. A TESTING MACHINE FOR DETERMINING THE CREASE-RESISTANCE OF FIBER, YARN, AND FABRIC. [1962] 4p. Order from ATS \$7.55                      ATS-10P61R  Trans. of Khim[icheskie] Volokna (USSR) 1961, no. 3, p. 48-49.</p> <p>DESCRIPTORS: *Fibers, *Threads, *Textiles, Test equipment, Machines.</p> <p>CSIRO no 6974</p> <p>(Materials--Textiles, TT, v. 8, no. 4)</p>	<p>62-17762</p> <p>I. Palladov, S. S. II. Sklyannikov, V. P. III. ATS-10P61R IV. Associated Technical Services, Inc., East Orange, N. J.</p> <p>Office of Technical Services</p>
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Malafeev, G. A.  
INFLUENCE OF THE CHIMNEY BLOWING CONDITIONS ON THE QUALITY OF CAPRON FILAMENT. [1963] 9p.  
Order from ATS \$9.50

ATS-13Q7CR

Trans. of Khim[icheskie] Volokna (USSR) 1961, no. 3,  
p. 63-67.\*

DESCRIPTORS: \*Filaments, \*Fibers (Synthetic).

63-17750

1. Title: Chimneys
2. Title: Capron
- I. Malafeev, G. A.
- II. ATS-13Q7CR
- III. Associated Technical Services, Inc.,  
East Orange, N. J.

(Materials--Textiles, TT, v. 10, no. 7)

Office of Technical Services

63-17748

Krainova, K. M. and Lomako, A. V.  
NEW PROCESS FOR CLEANING STEEL SPINNING  
SPINNERETS. [1963] 2p.  
Order from ATS \$2.00

ATS-12Q70R

Trans. of Khim[icheakie] Volokna (USSR) 1961, no. 3,  
p. 68.

DESCRIPTORS: \*Steel, Cleaning, Textiles.

- I. Title: Spinneret
- II. Krainova, K. M.
- III. Lomako, A. V.
- IV. ATS-12Q70R
- V. Associated Technical Services, Inc.,  
East Orange, N. J.

(Materials--Textiles, TT, v. 10, no. 6)

Office of Technical Services

Kudryavtsev, G. I., Matyash, T. A. and others.  
HYDRAZIDATION OF POLYACRYLONITRILE FI-  
BERS. 25 July 62 [17]p. 6 refs.  
Order from OTS or SLA \$1.60 62-18969

Trans. of Khim[icheskie] Volokna (USSR) 1961, no. 4,  
p. 13-19.

DESCRIPTORS: \*Acrylonitrile polymers, \*Fibers  
(Synthetic), \*Hydrazines, Chemical reactions, Dyes,  
Synthetic fibers. Fibers.

The reaction of hydrazine hydrate with an acryloni-  
trile-methyl acrylate copolymer was studied under het-  
erogeneous conditions, using a 50% alcoholic solution  
of hydrazine hydrate and pure hydrazine hydrate. It  
was found that the optimum conditions for forming hy-  
drazide and other basic groups in the copolymer, which  
make it dyeable with acid dyes, are treatment with al-  
(Chemistry--Organic, TT, v. 9, no. 7) (over)

62-18969

I. Kudryavtsev, G. I.  
II. Matyash, T. A.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

Gelperin, N. I. and Krokhin, N. G.  
DETERMINATION OF THE RESISTANT COEFFICIENTS  
IN THE MOVEMENT OF VISCOSE AND ACETYL  
CELLULOSE SOLUTIONS. May 62 [10]p. 5 refs.  
Order from OTS or SLA \$1.10 62-20027

Trans. of Khim[icheskie] Volokna (USSR) 1961, no. 4,  
p. 37-41.

DESCRIPTORS: \*Fibers (Synthetic), Solutions,  
\*Cellulose, \*Acetyl radicals, \*Viscose, Motion,  
Resistance, Numerical analysis.

(Engineering--Chemical, TT, v. 9, no. 10)

62-20027

I. Gelperin, N. I.  
II. Krokhin, N. G.

Office of Technical Services

TT-63-22957

Vasil'ev, Yu. V. and Rogovin, Z. A.  
DEVELOPMENT OF A METHOD FOR THE EVALUATION OF THE THERMOMECHANICAL PROPERTIES OF FIBERS. [1963] 8p  
Order from ATS \$11.90

ATS-54Q72R

Trans. of Khimicheskie Volokna (USSR) 1961, no. 4,  
p. 42-46.

DESCRIPTORS: \*Fibers, (Synthetic) Mechanical properties, Heat, Textile industry.

I. Vasil'ev, Yu. V.  
II. Rogovin, Z. A.  
III. ATS-54Q72R  
IV. Associated Technical Services, Inc., East Orange, N. J.

(Materials--Textiles, TT, v. 11, no. 10)

OFFICE OF TECHNICAL SERVICES

(NY-3000)

Progress in Chemical Fiber Production,  
3 pp.

RUSSIAN, per, Khim Volokna, No 5, 1961,  
pp 1-2.

JPRS 11566

USSR

Econ

Jan 62

178, 206

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300830059-0

Petukhov, B. V. and Terekhova, G. M.  
EFFECT OF POLYESTERIFICATION CATALYSTS ON  
SECONDARY PROCESSES DURING THE SYNTHESIS  
OF LAVSAN. [1962] 9p. 13 refs.  
Order from OTS or SLA \$1.10 62-14895

Trans. of Khim[icheskie] Volokna (USSR) 1961, no. 5,  
p. 24-27.

DESCRIPTORS: \*Polyethylene plastics, \*Phthalates,  
Synthesis, Esterification, Catalysts, Zinc compounds,  
Manganese compounds, Cobalt catalysts, Ethylenes,  
Glycols, Dihydration, Pyrolysis, Oxidation, Melting,  
Colors.

In choosing a catalyst for the synthesis of polyethylene  
terephthalate (PET), it is important to consider the de-  
gree of thermodestructive processes which are caused  
by the catalysts. Various catalysts of polyesterification  
(Materials--Plastics, TT, v. 9, no. 4) (over)

62-14895

I. Title: Lavsan  
I. Petukhov, B. V.  
II. Terekhova, G. M.

Office of Technical Services

Nikonova, E. A. and Myagkov, V. A.  
EFFECT OF THE CONDITIONS OF PREPARATION  
OF VISCOSE ON ITS TRANSPARENCY. [1963] [13]p.  
7 refs.  
Order from OTS or SLA \$1.60

63-18294

Trans. of Khim[ichek] Volokna (USSR) 1961,  
no. 5, p. 27-31.

DESCRIPTORS: "Viscose, Iron, Sulfides, Cellulose,  
Surface-active substances, Amines,

The presence of dispersed air in viscose decreases its  
transparency. Dissolved air does not influence viscose  
transparency. A decrease in viscose transparency in  
the process of ripening is due to the presence of Fe in  
it which is gradually converted into sulfide. The  
presence of Ca also decreases the transparency, es-  
pecially when it is introduced into the dissolving pulp.  
(Materials--Textiles, TT, v. 10, no. 9) (over)

63-18294

I. Nikonova, E. A.  
II. Myagkov, V. A.

Office of Technical Services

SOME PROPERTIES OF CONCENTRATED SOLUTIONS OF  
POLYVINYL ALCOHOL, BY K. E. PEREPELKIN, G. V.  
KONSTANTINOVA.

RUSSIAN, PER, KHIM VOLOKNA, NO 6, 1961,  
PP 19-22.

NLL M. 3779

SCI - CHEM

OCT 62

214,739

Construction of Apparatus for the Continuous  
Xanthation of Alkali Cellulose, by O. P. Rassolov,  
A. B. Pakahver.

RUSSIAN, per, Khim Volokna, No 6, 1961, pp 33-35.

ILL N 3895

Sci - M/N  
Mar 63

225,397

Polymer-like Conversion of Synthetic  
Fiber-forming Polymers. Aminolysis of  
Ester Groups in Polyacrylonitrile-Meth-  
ylmethacrylate, by G. I. Kudryavtsev,  
E. A. Rassoslova.  
RUSSIAN, per, Khimicheskie Volokna, No  
1, pp. 36-40.  
NTC 69-10651-11E

Sci-Mat  
July 69

386,796

63-18269

Veldeman, E. B. and Meos, A. I.

A METHOD OF REDUCING THE AMOUNT OF  
HYDROGEN SULFIDE RELEASED FROM THE COAG-  
ULATING BATH IN VISCOSE RAYON PRODUCTION.  
[8 Feb 63] [11]p. 5 refs.

Order from OTS or SLA \$1.60 63-18269

Trans. of Khimicheskie Volokna (USSR) 1961, no. 6,  
p. 39-41.

DESCRIPTORS: \*Rayon, \*Viscose, Production, Coagu-  
lation, \*Waste gases, Hydrogen compounds, \*Sulfides,  
Oxidation, \*Sodium compounds, \*Sulfites.

The influence of sodium sulfite on the variation of the  
amount of hydrogen sulfide given off under the direct  
effect of the coagulating bath on the viscose was studied.  
It was shown that the addition of 1-1.5% of sodium  
sulfite to the coagulating bath reduces the amount of  
hydrogen sulfide given off in the viscose rayon produc-  
(Materials--Textiles, TT, v. 10, no. 12) (over)

I. Veldeman, E. B.  
II. Meos, A. I.

Office of Technical Services

Baibakova, Z. V., Rozhanskaya, F. M., and  
Rogovin, Z. A.  
THE PRODUCTION OF STAPLE FIBER FROM  
SOLUTIONS OF TRIACETYL CELLULOSE IN  
ACETIC ACID. 1 June 62, 8p. 3 refs.  
Order from OTS or SLA \$1.10 63-10808

Trans. of Khim[icheskie] Volokna (USSR) 1961, no. 6,  
p. 46-48.

DESCRIPTORS: \*Fibers, Production, \*Acetyl radicals,  
Cellulose compounds, \*Acetic acids, Mechanical  
properties, Fibers (Synthetic).

A method for producing triacetate staple fiber from  
acetic acid solutions of cellulose triacetate was  
developed and the main process parameters were  
established. The relation between process parameters  
and the physical and mechanical properties of the fiber  
was examined. (Author)

63-10808

I. Baibakova, Z. V.  
II. Rozhanskaya, F. M.  
III. Rogovin, Z. A.

(Materials--Textiles, TT,  
v. 9, no. 12)  
Office of Technical Services

Delustring Polyamide Resin During Production,  
by V. M. Kharitonov.

RUSSIAN, per, Khim Volokna, No 6, 1961, pp 56-57.

MIL M 8892

Sci - Chem  
Mar 63

~~22391~~  
224,291

Method of Removing Polyamide Resin From Spinnerets,  
V. M. Kharitonov.

RUSSIAN, per, Khim Volokna, No 6, 1961, pp 58-59.

NLL M 8891

Sci - Chem  
Mar 63

~~204,306~~

<p>Monastyrenko, E. M. and Tochilina, L. P. LOSS OF STRENGTH BY TIRE CORD ON TWISTING. [7 Mar 63] 4p. 2 refs. Order from OTS or SLA \$1.10 63-18400 Trans. of <u>Khim[icheskie] Volokna (USSR)</u> 1961, no. 6, p. 66.</p> <p>DESCRIPTORS: *Tires, *Viscose, *Cordage, Filaments, Density, Humidity, Temperature, Stresses, Mechanical properties.</p> <p>The loss of strength by tire cord in the twisting processes was found to diminish with increase of the linear density of the individual filaments making up the yarn. Increased relative humidity and temperature in the twisting room, as compared to the established standard, leads to an increase in the strength loss of cord yarn. (Author) (Materials--Rubber, TT, v. 10, no. 11)</p>	<p>63-18400</p> <p>I. Title: Twisting machine I. Monastyrenko, E. M. II. Tochilina, L. P.</p> <p>Office of Technical Services</p>
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